

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001567A. CLASSIFICATION OF SUBJECT MATTER
IPC 7: F17D

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
F17D 1/04, E21B 33/*, 43/*Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC 137/*, 166/*Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Delphion, Canadian Patent Database, WEST, esp@cenet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CA, A, 2350453 (LIKNES) 18 January 2002 see the whole document	1, 21
A	US, A, 6293341 (LEMETAYER) 25 September 2001 see Fig. 1-3	1, 21
A	US, A, 5890549 (SPREHE) 6 April 1999 see Fig. 1	1, 21
A, P	US, A, 6672392 (REITZ) 2 October 2003 see Fig. 1	1, 21

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international-type search
9 December 2004 (09/12/2004)Date of mailing of the international-type search report
24 December 2004 (24-12-2004)Name and mailing address of the ISA/CA
Commissioner of Patents
Canadian Patent Office - PCT
Ottawa/Gatineau K1A 0C9
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2004/001567

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2350453	18-01-2002	US6629566 B2	07-10-2003
US5890549	06-04-1999	AU4032200 A AU5792898 A CA2274169 A1 US5975219 A US5992544 A WO0058600 A1 WO9828517 A1	16-10-2000 17-07-1998 02-07-1998 02-11-1999 30-11-1999 05-10-2000 02-07-1998
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